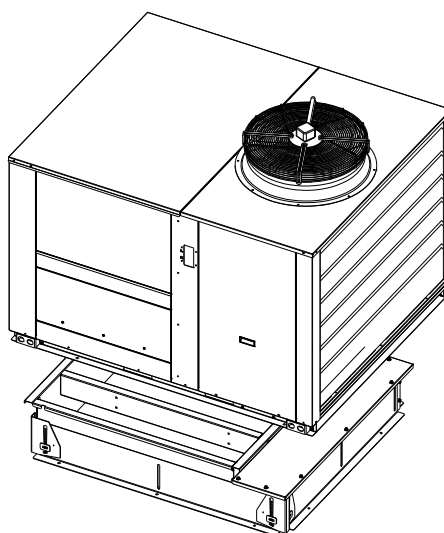




BY JOHNSON CONTROLS

Mounting base (ROOF CURB) adjustable for ROOF TOP ACTIVA 017/040 units



Options and Accessories, Installation manual

Ref.: N-40401_EN 0112



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**Mounting base (ROOF CURB) adjustable
for ROOF TOP ACTIVA 017/040 units**

1.1 General information

The adjustable ROOF CURB mounting base is suitable for installing on sloping building roofs, with inclinations of up to 6° (10%).

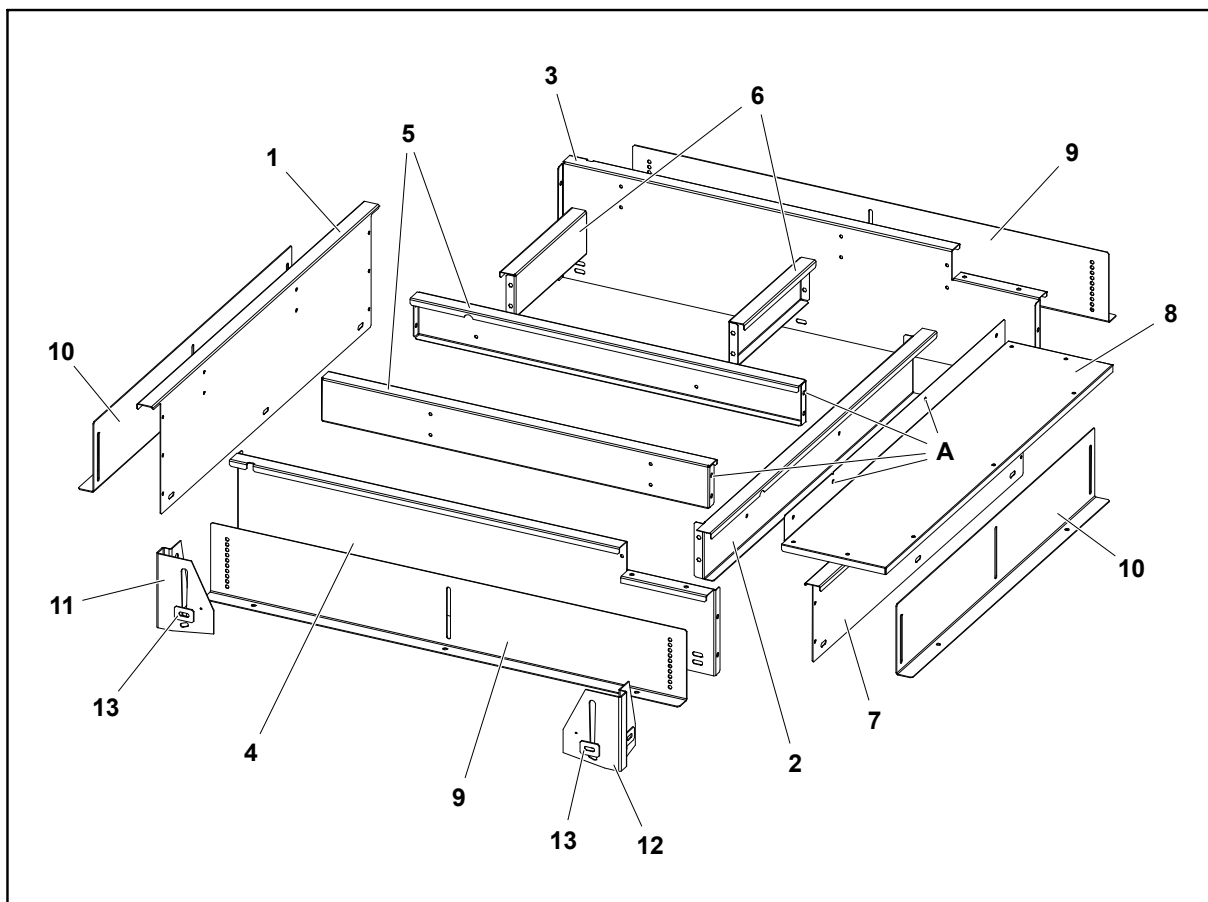
It is a structure made of galvanised sheet steel, and is supplied unassembled in kit form for on-site assembly and installation.

It consists of a closed frame that fits under the base of the unit, providing a sealed joint between the latter and the cover of the building. The adjustment system allows the gradient of the roof to be maintained, and a level surface to be achieved, for the correct positioning of the unit.

It allows to assemble the ducts directly from inside the building, before installing the Roof Top unit.

The power and control cables can also be passed to the unit through the roofcurb, as well as the hot water and gas supply lines when the unit has the corresponding heating options.

1.2 Assembly



1.2.1 Pre-assembly of the base

1. Identify the components according to the figure.
2. Join the two outer sides -1-, -2-, -3-, -4- and -7-. Do not tighten the bolts.



NOTE

Use the M8 bolts supplied.



ATTENTION

DO NOT fit the bolts -A-

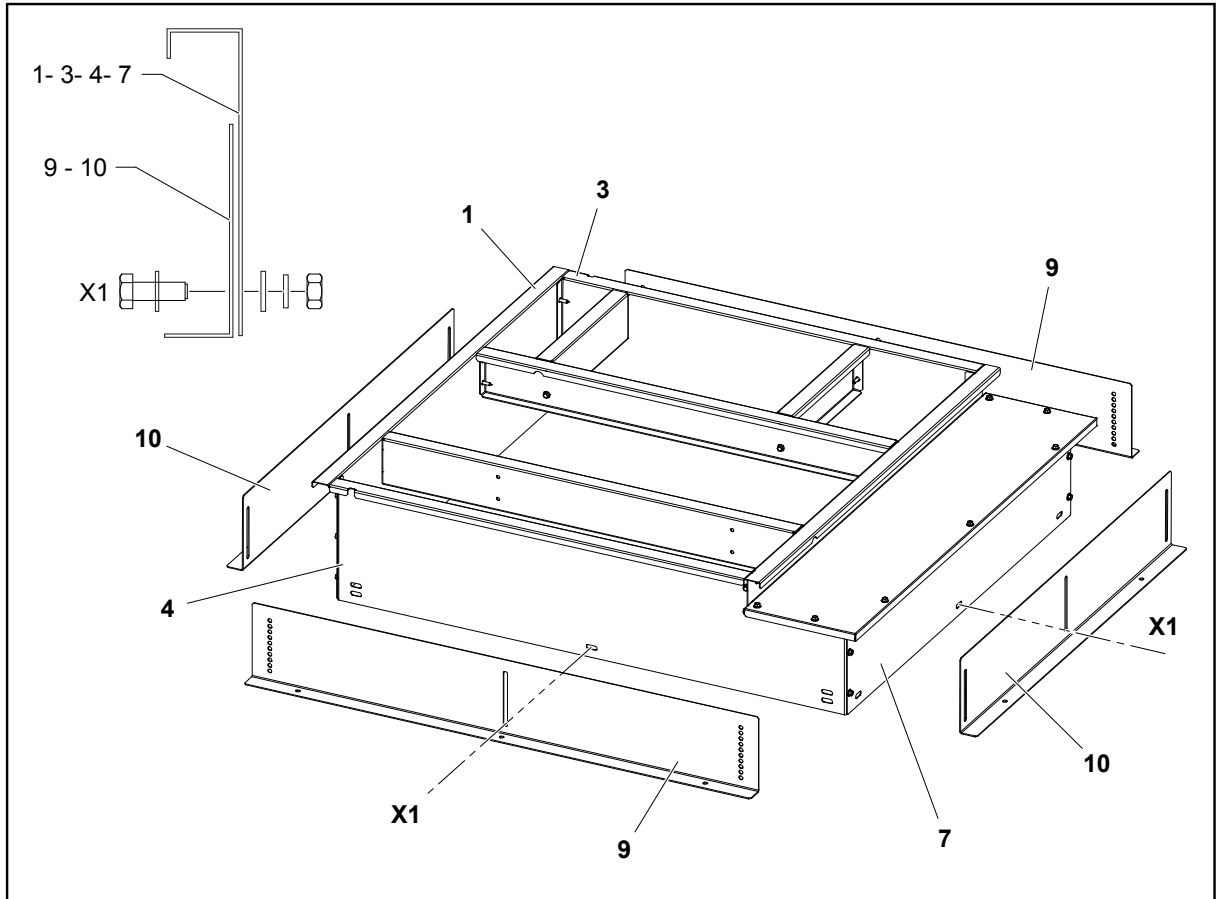
3. Assemble the inner crossbeams -5- and -6-.

4. Secure using the bolts.
5. Assemble the panel -8- and fix it to the sides -2-, -3-, -4- and -7-.



NOTE

The bolts of the points -A- fix the panel -8- to the side -2- and to the crossbeams -5-.



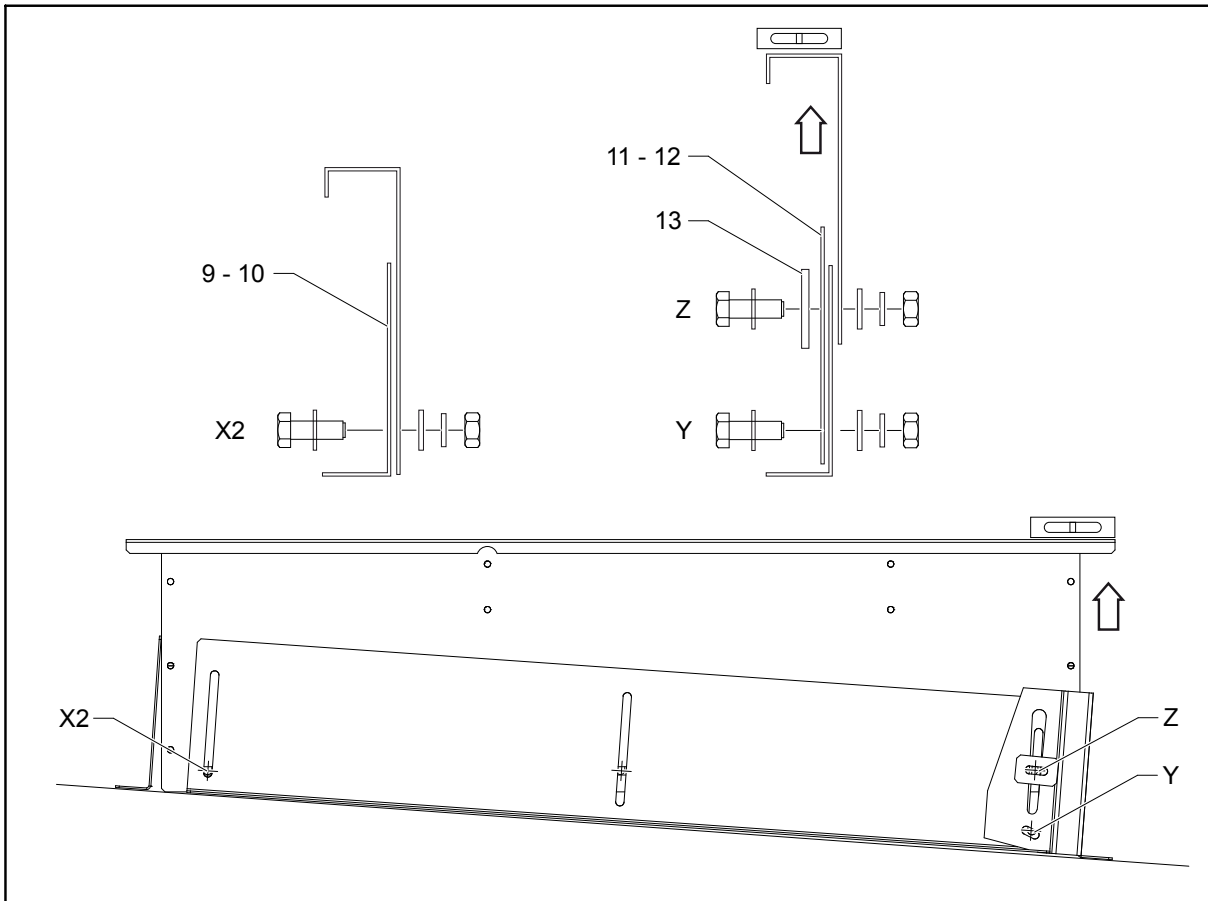
1.2.2 Fitting the adjustment sides

1. Use the M10 bolts, the hexagonal nuts, the flat washers and the toothed washers supplied.
2. Secure the adjustment sides -9- to the sides -3- and -4-
3. Secure the adjustment sides -10- to the sides -1- and -7-, through existing holes in the central zone -X1-. Do not tighten the bolts.



NOTE

There are four points -X1-.



1.2.3 Fitting the adjustment brackets

1. Use the M10 bolts, the hexagonal nuts, the flat washers and the toothed washers supplied.
2. Secure the adjustment brackets -11- and -12- on the two corners of the side of the base that will rise in order to achieve the level surface.
3. Secure each bracket to the adjustment side through its lower hole. In this point -Y- join brackets -11- and -12- to each other, with the corresponding adjustment side only, -9- or -10-, but not with the fixed sides -1-, -3-, -4- and -7-. To do this, raise the base slightly so that the bolts can pass. Do not tighten the bolts.



NOTE

There are two points -Y- on each bracket.

4. At the opposite end, point -X2- in both corners that will not be raised, join the adjustment side, -9- or -10-, directly to the corresponding base sides -1-, -3-, -4- and -7-. Do not tighten the bolts.



NOTE

There are four points -X2-.

1.2.4 Adjustment and levelling

1. Use the M10 bolts, the hexagonal nuts, the flat washers and the toothed washers supplied.
2. Raise the base on the side of the brackets until the upper part is level.

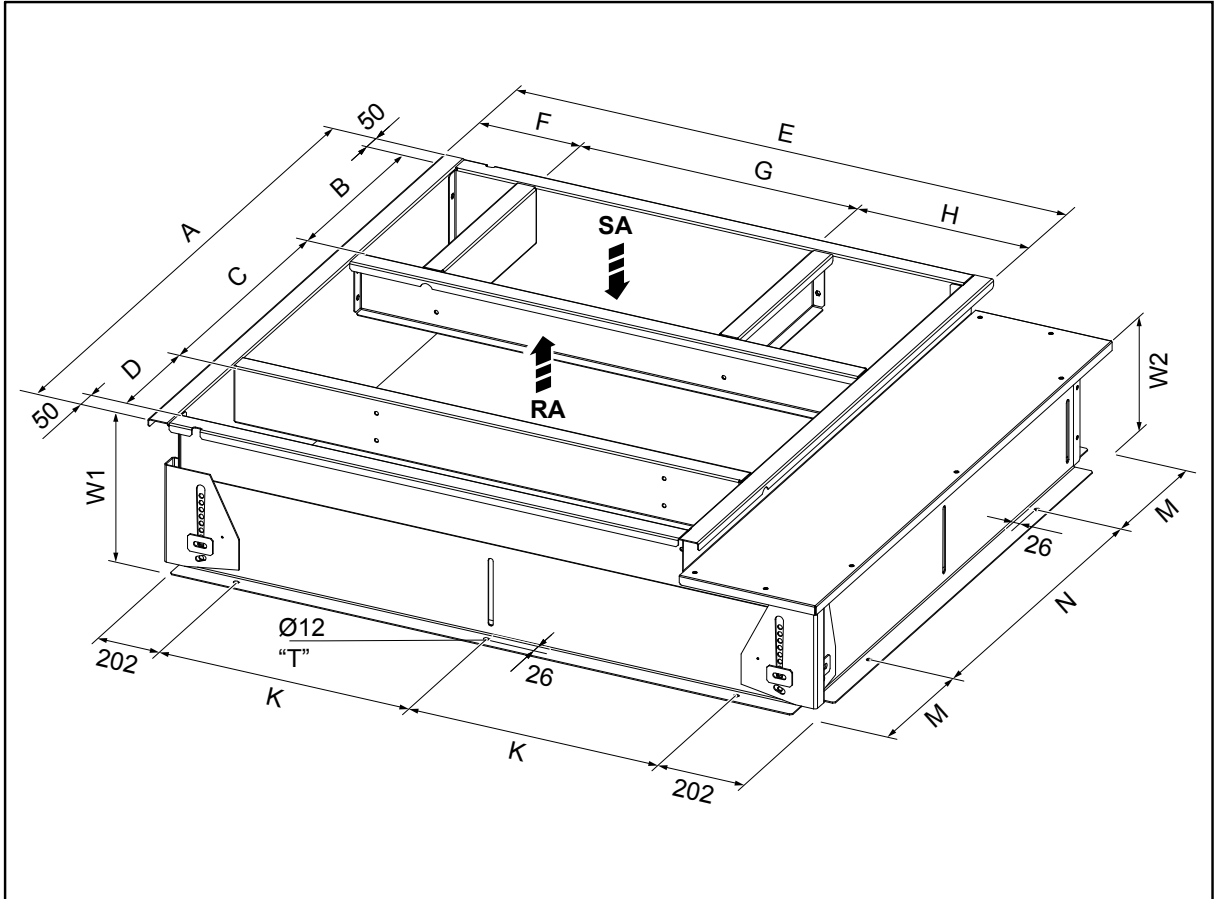
- Secure the base position in each of the brackets -11- and -12-, in the two points -Z-, using the plates -13- to secure the seating of the bolt on the hole.



NOTE

There are two points -Z- on each bracket.

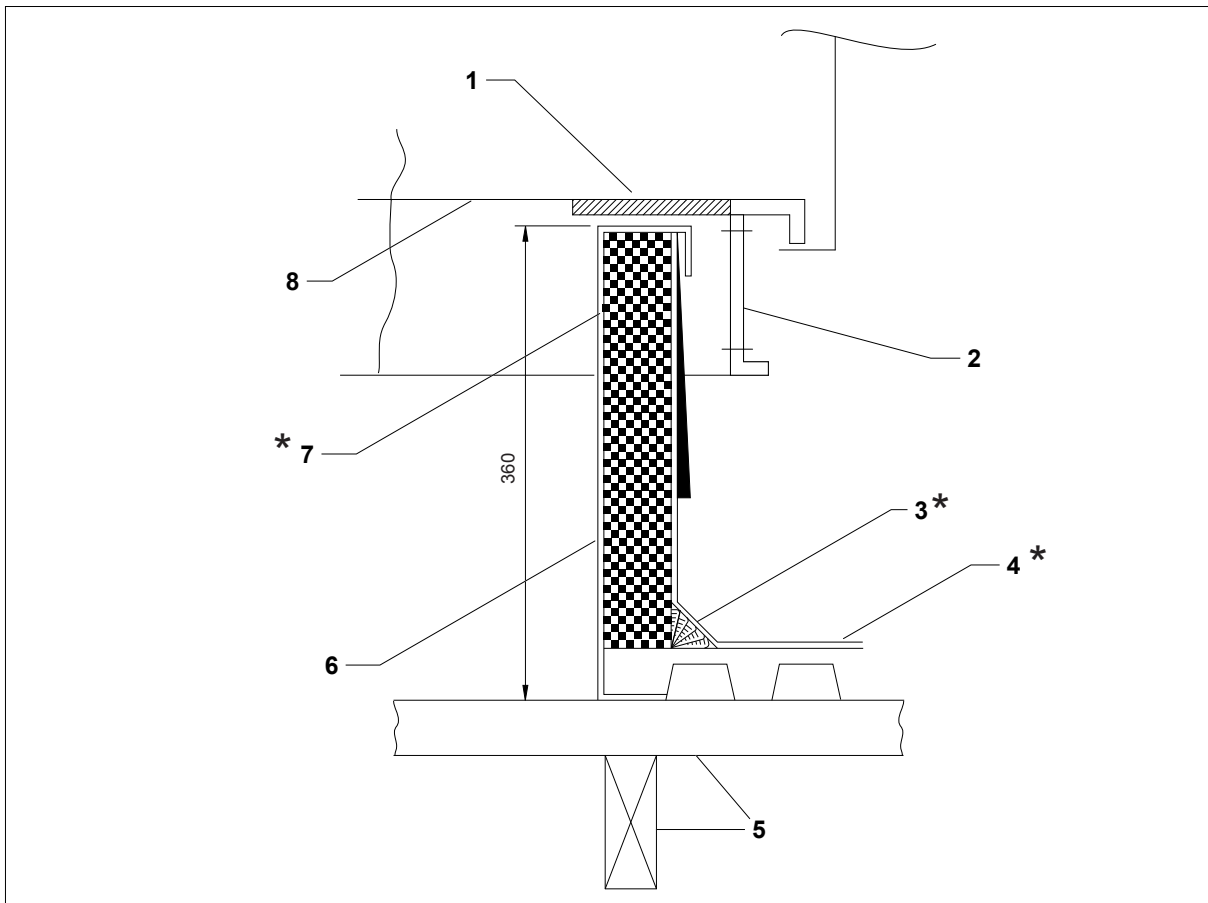
- Tighten all bolts that were previously left loose.



- SA Supply air
- RA Return air
- T Holes for fixing to the structure of the building (x10)

| Model | A | B | C | D | E | F | G | H | K | M | N | W2 | | W2 | | Weight [kg] |
|---------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|------|------|-------------|
| | | | | | | | | | | | | min. | max. | min. | max. | |
| 017/022 | 1410 | 450 | 605 | 255 | 1320 | 250 | 660 | 410 | 600 | 307 | 800 | 360 | 510 | 275 | 425 | 95 |
| 032/040 | 1720 | 600 | 695 | 325 | 1570 | 260 | 850 | 460 | 725 | 412 | 900 | 360 | 525 | 275 | 440 | 114 |

1.3 Installation



- | | |
|--|----------------------------------|
| 1. Joint on the base of the unit | 6. Mounting base frame |
| 2. Unit base joists | 7. Rigid insulating material (*) |
| 3. Bevel batten (*) | 8. Unit base |
| 4. Building roof insulating material (*) | |
| 5. Building structure and roof | |

(*) Material not supplied with the Kit

The ROOF CURB mounting base must be correctly fixed to the roof of the building To do so, use the nuts and bolts supplied (M-10) or use welding.

A level tolerance of a maximum of 10 mm in any direction must be maintained.

In order to prevent humidity or condensation from filtering into the building, the four outer sides must be insulated using rigid insulating material. Cover the entire contour with an extension of the same insulating and sealing material used on the roof of the building (components marked "*" are not supplied with the accessory).

Connect the ducts directly on the ROOF CURB, prior to the installation of the ROOF TOP unit. A plenum system (not supplied) can be used, fitted from the outside (cover or roof) to connect the duct from the inside of the building.

If a return air duct is required, consult the connection dimensions in the Roof Top installation manual.